

New Concentration in Molecular Targets and Drug Discovery Technologies And Fellowship

Offered through the Johns Hopkins University MS in Biotechnology

Classes Start Fall 2004



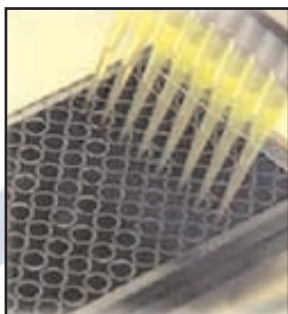
The Johns Hopkins University and the Center for Cancer Research, National Cancer Institute (CCR/NCI) have developed an innovative graduate program that prepares the next generation of scientists in drug discovery technologies. This new concentration in Molecular Targets and Drug Discover Technologies combined with the CCR/NCI fellowship fully integrates the didactic training and hands-on laboratory experience required for graduates to contribute to the advancement of knowledge and research in the field of Drug Discovery.

Fellows earn an MS in Biotechnology with a concentration in Molecular Targets and Drug Discovery Technologies, participate in important cancer research, work in CCR/NCI laboratories, and receive paid tuition for up to two years and an annual stipend.

Five students per year will be selected for the two-year fellowship. Fellows receive the stipend only if they are accepted into the Master of Science in Biotechnology and the NCI Molecular Target and Drug Discovery Fellowship Program.

Applications will be available January 1 and are due April 1.

Degree and Fellowship Requirements and Prerequisites:



Fellowship

- Immediate Post-Baccalaureates (Starting immediately after completion of undergraduate degree)
- Must be a U.S. citizen or permanent resident
- One course in Probability and Statistics or Biostatistics

Degree

- An undergraduate degree in the natural sciences or in engineering with at least a 3.0 on a 4.0 scale in the latter half of undergraduate studies
- Two semesters of Organic Chemistry with Labs

10-Graduate Course Curriculum for MS Degree in Biotechnology with a Concentration in Molecular Targets and Drug Discovery Technologies:

Two-Year Fellowship (stipend and tuition) working in NCI Laboratories

JHU Core Courses:

- Biochemistry
- Advanced Biochemistry and Molecular Biology
- Advanced Cellular Biology I
- Advanced Cellular Biology II

Concentration Courses:

- Molecular Targets and Cancer
- Bioassay Development
- Chemical Libraries and Diversity
- High Throughput Screening and Automation Laboratory

Electives (Two):

- Molecular Basis of Pharmacology
- Cancer Biology
- Clinical and Molecular Diagnostics
- Regulatory Processes
- Tissue Culture Techniques in Cell Biology Lab
- Theory and Application of Immunoassays
- Recombinant Protein Expression, Production and Analysis Lab



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Advanced Academic Programs

For more information contact Dr. Patrick Cummings at 410-516-4724 or cupat@jhu.edu or Dr. Kris Obom at 301-294-7159 or kobom@jhu.edu.

www.jhu.edu/advanced • 1-800-847-3330